

WEST Search History

DATE: Monday, October 02, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L12	l10 and L11	2
<input type="checkbox"/>	L11	phase same output same signature	686
<input type="checkbox"/>	L10	(invert or inverting) and (cross adj product or correlation adj matrix)	626
<input type="checkbox"/>	L9	(invert or inverting) and (cross adj product or correlation adj matrix) and l8	1
<input type="checkbox"/>	L8	phase same output same signature same (array or microarray)	52
<input type="checkbox"/>	L7	phase same output same signature same (invert or inverting)	17
<input type="checkbox"/>	L6	phase same output same signature and l1	0
<input type="checkbox"/>	L5	phase and 20050037363.pn.	1
<input type="checkbox"/>	L4	phase and l3	1
<input type="checkbox"/>	L3	((cluster or clustering) and (20050037363.pn.))	1
<input type="checkbox"/>	L2	phase and l1	5
<input type="checkbox"/>	L1	(5,860,917.pn. or 6,171,797.pn. or 6,180,351.pn. or 6,188,969.pn. or 6,222,664.pn. or 6,232,072.pn. or 6,242,266.pn. or 6,251,685.pn. or 6,320,196.pn. or 6,323,043.pn. or 6,355,921.pn. or 6,371,370.pn. or 6,406,849.pn. or 6,486,457.pn. or 6,518,556.pn.)	15

END OF SEARCH HISTORY

Connecting via Winsock to STN

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/Caplus enhanced with 1900-1906 U.S. patent records
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USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/Caplus
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
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NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
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NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/Caplus(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/Caplus enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/Caplus fields enhanced with simultaneous left and right
truncation
NEWS 20 SEP 25 CA(SM)/Caplus(SM) display of CA Lexicon enhanced
NEWS 21 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 23 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:12:37 ON 02 OCT 2006

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=> fil medline biosis caplus scisearch embase wpids
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.21          0.21
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FILE 'MEDLINE' ENTERED AT 09:13:03 ON 02 OCT 2006

FILE 'BIOSIS' ENTERED AT 09:13:03 ON 02 OCT 2006
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FILE 'WPIDS' ENTERED AT 09:13:03 ON 02 OCT 2006
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```
=> phase (s) output (s) signature
L1      24 PHASE (S) OUTPUT (S) SIGNATURE
```

```
=> (invert or inverting) and (cross (s) product or correlation (s) matrix)
L2      46 (INVERT OR INVERTING) AND (CROSS (S) PRODUCT OR CORRELATION
        MATRIX)
```

```
=> l1 and l2
L3      0 L1 AND L2
```

```
=> dup rem l2
PROCESSING COMPLETED FOR L2
L4      42 DUP REM L2 (4 DUPLICATES REMOVED)
```

```
=> t ti l4 1-42
```

L4 ANSWER 1 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Linear minimum mean square error equalizer for spread spectrum receiver,
generates set of filter coefficients from inverting series of
sub-matrices representing element of approximated correlation
matrix for spread spectrum signal.

L4 ANSWER 2 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Repair tool for repairing molded product, has stamp portion which carries
out inversion transfer of fine grooving of molded product.

L4 ANSWER 3 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Animal feed product, useful for administering medicaments (e.g. tablets)
to domestic animals e.g. cats and dogs, comprises body made from dough
(exhibits composition without chemical additives), which is provided with
cavity and opening.

L4 ANSWER 4 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Interference filtering method, useful in Global Positioning System
receiver, involves using Fourier Transform correlation to compute

cross-power spectra for antenna elements, and computing Inverse Fourier Transform of cross-spectra power.

- L4 ANSWER 5 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Signal transfer characteristic equalization method in e.g. audio equipment, involves filtering input and sensor output signals using common pole transfer function determined by inverted characteristic polynomial of product matrix.
- L4 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
TI Coupled inverse modeling of vadose zone water, heat, and solute transport: calibration constraints, parameter nonuniqueness, and predictive uncertainty
- L4 ANSWER 7 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Multiple input/multiple output CDMA signal receiving method for use in CDMA telephone system, involves taking FFT of channel impulse vectors to generate filter taps, and taking inverse FT of taps to generate equalized signals.
- L4 ANSWER 8 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Chemical analysis of, e.g. drilling, by collecting samples of fluids from predetermined fluid collection points, introducing the samples into microfluidic system, and executing tests on microfluidic device.
- L4 ANSWER 9 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Auto-correlation matrix calculation method for adaptive array antenna, involves determining elements of first row and column of matrix, representing output of tap delay line circuits, using sample matrix inversion algorithm.
- L4 ANSWER 10 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Dispenser for use with e.g. edible-oil bottle, has air chamber which houses float having variable cross-sectioned pin, which is pushed by oil entering air chamber, when bottle is inverted.
- L4 ANSWER 11 OF 42 MEDLINE on STN DUPLICATE 2
TI Correlation energy of many-electron systems: a modified Colle-Salvetti approach.
- L4 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
TI Edible compositions containing carbohydrate for dosage forms
- L4 ANSWER 13 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Emulsion production for printing ink, involves dispersing low viscous stream into high viscous stream through membrane, either as continuous or dispersed phase which are inverted.
- L4 ANSWER 14 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Inverted spraying type aerosol product includes weight provided to upper end center section of cover and adapted to accelerate spraying of aerosol product content at time of use of aerosol product.
- L4 ANSWER 15 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Inverse Fourier transform circuit for microwave transmitter, reads pilot signal from memory through inverter, and adds inverted pilot signal with data signal output from inverse fast Fourier transform unit.
- L4 ANSWER 16 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Channel estimation for wireless systems e.g. mobile channels has orthogonal frequency division multiplexing transmitters and receivers, equalizer and training symbols.

L4 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Cross dimerization of terminal alkynes catalyzed by [(Et₂N)₃U][BPh₄]

L4 ANSWER 18 OF 42 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI Analysis of two-point statistics of cosmic shear - I. Estimators and covariances

L4 ANSWER 19 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Enhanced vertical resolution for logging tools using Walsh transform deconvolution.

L4 ANSWER 20 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Spin filter assembly for centrifugal isolation and/or determination of a desired compound, especially a protein, in a solution comprises a container closure that fits into the top of a filter tube.

L4 ANSWER 21 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Calibration method for polarimeter, involves determining the Stokes vector by performing the inversion of the measured vector using an inversion device.

L4 ANSWER 22 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Product comprising a container with a main compartment containing a salad and a base compartment containing a dressing includes an edible partition between the compartments.

L4 ANSWER 23 OF 42 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI Inverting the angular correlation function

L4 ANSWER 24 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Mechanism for inversion of textile products e.g. hosiery, in production line.

L4 ANSWER 25 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Preparation of cross-linked, water-swellaable polymer particles for soft-tissue augmentation.

L4 ANSWER 26 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Wrapping apparatus for wrapping products in thermoplastic film.

L4 ANSWER 27 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Woodwork machine for making various column or disk shaped wooden products e.g. saucers, salad bowl - has inverted T-shaped cutter supported at chuck on vertical shaft and above opening of holder on processing table.

L4 ANSWER 28 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Simulated moving bed process for recovery of a product, e.g. sucrose, from a liquid mixture - in a recycled stream circulating through a partitioned bed of resin using first and second chromatographic procedures..

L4 ANSWER 29 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Rolling of shaped steel in rolling mill - involves performing both-way intermediate rolling including at least one inversion rolling with horizontal roll axes crossed for at least one pass.

L4 ANSWER 30 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Extruding ceramic products at increased rates with fewer structural defects - using extruder and die with flow inverting homogeniser in flow of plasticised ceramic to transfer mixture from periphery to centre and vice-versa via criss-crossing channels.

L4 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
 TI Determination of differential-cross-section moments from
 polarization-dependent product velocity distributions of
 photoinitiated bimolecular reactions

L4 ANSWER 32 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Package for product of non-specific shape - is made in form of inverted
 cardboard tray with apertures in its base, and covered with thermo-shrink
 plastics layer on two opposite sides.

L4 ANSWER 33 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Injection moulding tool for forming burr free prod. - has fixed mould in
 which cavity having inverted U-shape cross-section is formed, moving mould
 and slide core pins.

L4 ANSWER 34 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Correlator for digital signals processing - has non-inverting
 output of first flip-flop connected to reset input of first and second
 flip-flops, three counters and syn.c inputs of fourth and fifth counters.

L4 ANSWER 35 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Swimming pool edging strip mass producing process - has block press mould
 with inverted T-polystyrene divider rounded grooves in T-horizontal
 provide rounded edges to concrete.

L4 ANSWER 36 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Circuit for time variant spectral analysis of electrical signals - uses
 parallel integration circuits feeding summation circuits after
 amplification and inversions stages.

L4 ANSWER 37 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Drilling mud cleaning device - has hollow inverted truncated cone, and
 auxiliary sludge pump with suction linked by tube to initial prod. input
 neck.

L4 ANSWER 38 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Crab meat-like product producing appts - has conveyor belt, primary
 marking section, inverting section, cutting section, etc..

L4 ANSWER 39 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Inverted-meniscus heat pipe with thin-film boiling - has porous sheath
 containing core of glass beads and surrounded by annularly grooved wall.

L4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 TI The use of a nondiagonal weight matrix for momentum determination with
 magnetic spectrometers

L4 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Plasmons and excitons in insulators: dielectric treatment

L4 ANSWER 42 OF 42 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Refrigerating chain conveyor - passing round two drums with mobius
 inversion.

=> t ti ll 1-24

L1 ANSWER 1 OF 24 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI HFVS (TM) : Enhanced data quality through technology integration

L1 ANSWER 2 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Isotropic code division multiple access communication system.

L1 ANSWER 3 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Virus scanning method for computer system, involves initializing virus scanner during pre-boot phase of computer system and scrubbing read data using virus signature database.

L1 ANSWER 4 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Monitoring system for monitoring copper oxide formation during semiconductor fabrication process, comprises data-collecting component, analysis component, and regulating component.

L1 ANSWER 5 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Sensor for sensing characteristic(s) of rotating object, i.e. tire, has flexible piezoelectric element having access to ground plane and incorporating electrically conductive element(s) to facilitate communication externally.

L1 ANSWER 6 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Preamble receiver for mobile telephone, judges presence of applicable signature in in-phase addition result of multiplexed output.

L1 ANSWER 7 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Gas-lift oil well operation involves determining acoustic signature of fluid based on which flow regime is determined and operating parameters are controlled.

L1 ANSWER 8 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Self test method of built-in combinational logic for integrated circuit chips, involves coupling phase clocks to odd and even latches respectively, so that each latch operates as specific combination.

L1 ANSWER 9 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Signal processing method in code division multiple access adaptive array antenna, involves updating antenna phase based on signature of power gradient of array antenna output.

L1 ANSWER 10 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Carrier leakage suppression circuit for signal processing device - imparts two signatures to in-phase and quadrature baseband signals respectively prior to carrier signal modulation, and isolates and measures carrier leakage components in RF output.

L1 ANSWER 11 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Helicopter recognition system based on video imaging method - has detection device for generating video-output signal contg phase and amplitudes information and including video imaging device for detecting and acquiring helicopter.

L1 ANSWER 12 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Self test method for non regular CMOS circuit structure - use combination of self test with linear regenerative shift register with principle of sensing static current uptake and partitioning of circuit to be tested.

L1 ANSWER 13 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Automatic recognition of written signatures by image analysis - involves using learning phase in which classifier decides in which class signature belongs.

L1 ANSWER 14 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Controlling system access using signature verification in communications networks - discriminating forged signatures from authentic signatures in verification process which relies on dynamic signature properties.

L1 ANSWER 15 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Determining source signature of land vibrators - by recording reflections of phase-locked vibrating energy correlated to source signal of land vibrator producing image.

L1 ANSWER 16 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Active noise control system for propeller aircraft - using microphone to measure propeller noise, providing time delay output signal, and using noise source to reduce cabin noise level.

L1 ANSWER 17 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Marine seismic exploration optical waveguide transducer system - determines signature of sound sources by generating interference fringes and counting number in up-down counter.

L1 ANSWER 18 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Graduating master for electromagnetic flowmeters - compensating for phase-shift error by simple minimum voltage reference adjustment.

L1 ANSWER 19 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Pseudo-linear correcting device for control systems - has logic unit and series-connected summator and amplifier whose output is taken to multiplier.

L1 ANSWER 20 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Laser angle rate sensor - has signal processors provided in open or closed control loop for compensation of lock-in error.

L1 ANSWER 21 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Ranging quadrature doppler microwave intrusion alarm system - uses mono-static antenna, signature processor, rectifier, voltage comparators and RF oscillator.

L1 ANSWER 22 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI DC reversible contactless tachogenerator - has each of three phase windings of sync. generator connected via series-connected modulus extractor, clipper and switch, to summator.

L1 ANSWER 23 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Gated pulse compression radar - compresses sequence of reflected pulses and filters to extract stipulated frequency components.

L1 ANSWER 24 OF 24 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Verifier for handwritten signatures - samples pen acceleration and compares samples with same segments of reference signature.

=> profile and l1

L5 0 PROFILE AND L1

=> profile and l4

L6 1 PROFILE AND L4

=> d ibib abs l5

L5 HAS NO ANSWERS

L1 24 SEA PHASE (S) OUTPUT (S) SIGNATURE

L5 0 SEA PROFILE AND L1

=> d ibib abs l6

L6 ANSWER 1 OF 1 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 1998-427717 [36] WPIDS
 DOC. NO. CPI: C1998-128971
 TITLE: Simulated moving bed process for recovery of a product,
 e.g. sucrose, from a liquid mixture - in a recycled
 stream circulating through a partitioned bed of resin
 using first and second chromatographic procedures..
 DERWENT CLASS: D17 J01
 INVENTOR(S): KEARNEY, M M; KOCHERGIN, V N
 PATENT ASSIGNEE(S): (AMRE-N) AMALGAMATED RES INC; (KEAR-I) KEARNEY M M;
 (KOCH-I) KOCHERGIN V N
 COUNTRY COUNT: 77
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9832514	A1	19980730	(199836)*	EN	28
RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA					
PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE					
HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX					
NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN					
AU 9860435	A	19980818	(199851)		
BR 9807521	A	20000321	(200028)		
EP 1017467	A1	20000712	(200036)	EN	
R: AT BE DE FR GB NL					
JP 2001509730	W	20010724	(200147)		28
US 2002027104	A1	20020307	(200221)		
US 6379554	B1	20020430	(200235)		
US 6602420	B2	20030805	(200353)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9832514	A1	WO 1998-US1512	19980128
AU 9860435	A	AU 1998-60435	19980128
BR 9807521	A	BR 1998-7521	19980128
		WO 1998-US1512	19980128
EP 1017467	A1	EP 1998-903747	19980128
		WO 1998-US1512	19980128
JP 2001509730	W	JP 1998-532219	19980128
		WO 1998-US1512	19980128
US 2002027104	A1 Provisional	US 1997-36603P	19970129
	Div ex	WO 1998-US1512	19980128
	Div ex	US 1999-355415	19991118
		US 2001-956580	20010919
US 6379554	B1 Provisional	US 1997-36603P	19970129
		WO 1998-US1512	19980128
		US 1999-355415	19991118
US 6602420	B2 Provisional	US 1997-36603P	19970129
	Div ex	WO 1998-US1512	19980128
	Div ex	US 1999-355415	19991118
		US 2001-956580	20010919

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9860435	A Based on	WO 9832514
BR 9807521	A Based on	WO 9832514
EP 1017467	A1 Based on	WO 9832514
JP 2001509730	W Based on	WO 9832514
US 6379554	B1 Based on	WO 9832514

PRIORITY APPLN. INFO: US 1997-36603P 19970129; US
1999-355415 19991118; US
2001-956580 20010919

AN 1998-427717 [36] WPIDS

AB WO 9832514 A UPAB: 20031009

In a simulated moving bed (SMB) process for recovery of a first predominating product fraction in a first product species from a liquid mixture containing that product species and a second by-product species, a first feedstock (F1) comprising a relatively large amount of the product species and a small amount of a by-product species is fed into a first recycle stream circulating through a first partitioned bed of resin (12), a first raffinate (R1), comprising separated product species, is removed downstream of the introduction point of the feedstock (F1), eluent (W1) is introduced into the recycle stream downstream of the raffinate removal point, a first extract (E1) comprising separated by-product species, is withdrawn downstream of the eluent introduction point, and a second chromatographic separation procedure is established in which the first raffinate (R1) is contacted by a second resin bed (13) to produce a second raffinate (R2) comprising contaminants from the first raffinate, and a second extract (E2), predominating in the product species from the first raffinate, at high purity. Also claimed is a system for recovering sucrose from a raw sugar solution in which the first partitioned resin bed (12) is fed with a feedstock (F1) comprising sucrose and non-sucrose, a raffinate (R1) comprising separated sucrose, ash and high mol.weight compounds is removed downstream of the feedstock supply point, water (W1) is introduced downstream of the raffinate withdrawal point, an extract (E1) comprising separated non sucrose's is withdrawn downstream of the water introduction point, and the raffinate (R1) is treated to recover a high purity sucrose. Further claims refer to an SMB process as first above for recovery of sucrose from a raw sugar solution; and an SMB process as described second above in which the recycle stream has a separation profile, the raffinate is removed from the recycle stream in the vicinity of the leading edge of the profile, and the extract from the trailing edge, with the introduction into the stream of sufficient displacer species to displace the product species toward the leading edge of the separation profile; and the operation of such a system to displace a commercially valuable species into the leading region from which a raffinate stream is collected.

USE - Particularly in the recovery of betaine and/or invert fraction from sugar solutions and the production of high purity sucrose product.

ADVANTAGE - Provides a purified sucrose product which is not contaminated by cross-over non-sucroses, and the betaine and/or invert are recovered almost completely without compromising the advantages of SMB chromatography.
Dwg.2/4

=> d his

(FILE 'HOME' ENTERED AT 09:12:37 ON 02 OCT 2006)

FILE 'MEDLINE, BIOSIS, CAPLUS, SCISEARCH, EMBASE, WPIDS' ENTERED AT 09:13:03 ON 02 OCT 2006

L1 24 PHASE (S) OUTPUT (S) SIGNATURE
L2 46 (INVERT OR INVERTING) AND (CROSS (S) PRODUCT OR CORRELATION (S)
L3 0 L1 AND L2
L4 42 DUP REM L2 (4 DUPLICATES REMOVED)
L5 0 PROFILE AND L1
L6 1 PROFILE AND L4

=> l1 or l4

L7 66 L1 OR L4

=> dup rem l1

PROCESSING COMPLETED FOR L1

L8 24 DUP REM L1 (0 DUPLICATES REMOVED)

=> disease and l7

L9 1 DISEASE AND L7

=> d ibib abs l9

L9 ANSWER 1 OF 1 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 1999-443873 [37] WPIDS

CROSS REFERENCE: 1997-051601 [05]

DOC. NO. NON-CPI: N1999-331064

DOC. NO. CPI: C1999-130692

TITLE: Preparation of cross-linked, water-swellaable polymer particles for soft-tissue augmentation.

DERWENT CLASS: A35 A60 A96 B04 D22 P34

INVENTOR(S): LEE, C C; LU, C X; TSAI, C; VANDERHOFF, J W

PATENT ASSIGNEE(S): (BRDC) BARD INC C R; (UYLE-N) UNIV LEHIGH

COUNTRY COUNT: 21

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9931167	A1	19990624	(199937)*	EN	114
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
W: IN JP					
US 6214331	B1	20010410	(200122)		
US 6544503	B1	20030408	(200327)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9931167	A1	WO 1998-US26094	19981209
US 6214331	B1 CIP of	US 1995-466676	19950606
	CIP of	US 1996-659770	19960606
		US 1997-989888	19971212
US 6544503	B1 CIP of	US 1995-466676	19950606
	CIP of	US 1996-659770	19960606
	Cont of	US 1997-989888	19971212
		US 2000-563037	20000501

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 6544503	B1 Cont of	US 6214331

PRIORITY APPLN. INFO: US 1997-989888 19971212; US
1995-466676 19950606; US
1996-659770 19960606; US
2000-563037 20000501

AN 1999-443873 [37] WPIDS

CR 1997-051601 [05]

AB WO 9931167 A UPAB: 20030429

NOVELTY - Preparation of cross-linked, water-swellaable polymer particles by combining aqueous solution of water-soluble polymer(s) with functional group(s) or charge(s) and aqueous medium with oil phase of inert hydrophobic liquid and emulsifier by moderate agitation, etc.

DETAILED DESCRIPTION - Preparation comprises

(1) combining aqueous polymer solution comprising at least one water-soluble polymer with at least one functional group or charge and an aqueous medium with an oil phase comprising an inert hydrophobic liquid and at least one emulsifier under moderate agitation to form an emulsion of droplets of the water-soluble polymer; and

(2) adding to the emulsion at least one cross-linking agent capable of cross-linking the function groups or charges on the water-soluble polymer.

ACTIVITY - Soft-tissue augmentation; tissue growth promotion.

USE - Used in soft-tissue augmentation and to promote tissue growth (claimed). Used for implantation and scaffolding to promote cell growth. Used for medicinal purposes, for treatment of urinary incontinence, vesicoureteral reflux, glottic insufficiency, gastroesophageal reflux or skin defects, and to provide scaffolding material for wound healing and tissue replacement in tissues in the breast, lip, penis, bone, cartilage and tendon. Used for soft-tissue augmentation to treat congenital abnormalities (hemifacial microsomia, malar and zygomatic hypoplasia, unilateral mammary hypoplasia, pectus excavatum, pectoralis agenesis and velopharyngeal incompetence secondary to cleft palate repair and submucous cleft palate), acquired defects (post-surgical, -traumatic and -infectious defects, such as depressed scars, subcutaneous atrophy, acne pitting, linear scleroderma with subcutaneous atrophy, saddle-nose deformity, Romberg's disease and unilateral vocal cord paralysis) or cosmetic defects (glabellar frown lines, nasolabial creases, circumoral geographical wrinkles, sunken cheeks or mammary hypoplasia).

ADVANTAGE - Are biocompatible, non-biodegradable, substantially non-cytotoxic, non-carcinogenic, non-inflammatory, non-pyrogenic and non-immunogenic and lack other unwanted humoral or cellular responses. Have sufficient long-term stability of size, shape, rigidity and composition for utility as implant materials. Are relatively inert and do not rapidly degrade in vivo. Are easily injectable.

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L10 0 GENE AND L7

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L11 27 PHASE AND L7

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
84.23	84.44

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:26:07 ON 02 OCT 2006